

MINWOOL® MARINE A30/A60

MinWool Marine A30/A60 insulation is made of inorganic basalt fibers, with a thermosetting resin binder. Advanced manufacturing technology ensures consistent product quality, with high fiber density and low shot content, for excellent performance in shipboard thermal control and fire resistance applications.

BENEFITS

Excellent Thermal Performance Good thermal conductivity values help maximize control of heat loss, contributing to reduced operating costs and greater energy savings. High dimensional stability and low shrinkage, and excellent vibration resistance help ensure long-term service performance.

Good Physical and Chemical Properties Low water vapor sorption means this insulation will not grow mold or mildew, and it will resist growth of fungi and bacteria.

Lightweight, Low Dust Easy to handle and fabricate, this insulation is easy to cut with a knife. No sawing is required. Clean handling properties help reduce irritation and minimize job clean-up time and expense.

Surface Burning Characteristics Marine A30/A60 insulation has a flame spread rating of 5 and a smoke developed rating of 0 when tested in accordance with ASTM E84, UL 723, CAN/ULCS102-M.

Noncombustible Marine A30/A60 is noncombustible when tested in accordance with the IMO FTP Part 1 test protocol and ASTM E136.

APPLICATIONS

Marine A30/A60 insulation is a noncombustible, thermal insulation specifically designed and manufactured for use on shipboard bulkheads and decks. It is suitable for use on ducts, mufflers and exhaust stacks. Combining low moisture absorption and low linear shrinkage with excellent fungi, bacteria, and vibration resistance, this insulation offers the properties most sought in marine applications.

APPLICATIONS RECOMMENDATIONS

Marine A30/A60 insulation can be installed directly in bulkhead and deck applications by attaching with welded pins with speed washers, or studs with nuts. Fasteners should be installed on 12" (305mm) spacing (max) and not more than 6" (153mm) from the edge of the insulation. The insulation is normally impaled over the pins or studs, with joints tightly butted.

AVAILABLE THICKNESSES

Standard Thicknesses 1½"-4" in ½" Increments
(38, 51, 64, 76, 89, 102mm)
Standard Sizes 24" x 48" (610mm x 1219mm)



AVAILABLE TYPES

| Type | Density | |
|----------------|---------|-------|
| | lb/ft³ | kg/m³ |
| Marine A30/A60 | 7 | 112 |

SPECIFICATION COMPLIANCE

| | |
|---------------------------------------------------------------------------------------|-------------------------------------|
| ASTM C356 Linear Shrinkage | <1% at 1200°F (650°C) |
| ASTM C612 Standard Specification for Mineral Fiber Block and Board Thermal Insulation | Type IVB |
| ASTM C665 Corrosivity to Steel | Does not cause or contribute |
| ASTM C1104 Water Vapor Sorption | <1% by Weight @ 120°F(50°C), 95% RH |
| ASTM C1338 Fungi and Bacterial Resistance | Does not promote |
| ASTM E84 Surface Burning Characteristics | 5/0 |
| ASTM E136 Noncombustible | Passes |
| IMO Resolution A. 754(18) | 60 Minutes |
| ASTM C1335 Shot Content | < 25% |
| R-Value @ 75°F | 4.16 per inch of thickness |

US Coast Guard Certificate

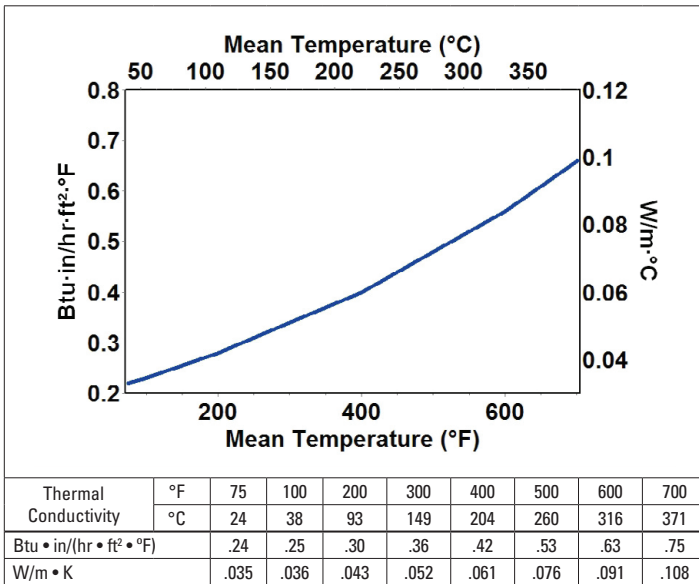
Structural Insulation (IMO).....164.107/25/0

| Structural Fire Rating | |
|------------------------|-----------|
| Rating | Thickness |
| A30/A60 Deck | 2" (51mm) |
| A60 Bulkhead | 3" (76mm) |

MINWOOL® MARINE A30/A60 FIRE-RATED STRUCTURAL INSULATION

PRODUCT DATA SHEET

THERMAL CONDUCTIVITY *



* MinWool Marine A30/A60 Insulation as tested in accordance with ASTM C518.

PRODUCT CERTIFICATION

When ordering material to comply with any government specification or any other listed specification, a statement of that fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing, and prohibit the certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing. Please refer to IND-CSP-3 for Certification Procedures and Charges. Call customer service for more information.

QUALITY STATEMENT

Johns Manville Industrial Insulation products are designed, manufactured and tested to strict quality standards in our own facilities. This along with third party auditing is your assurance that this product delivers consistent high quality.

SOUND ABSORPTION COEFFICIENTS

| Type | Thickness | | 1/3 Octave Band Center Frequencies, Hz | | | | | | |
|----------------|-----------|------|----------------------------------------|------|------|------|------|------|------|
| | (in) | (mm) | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
| Marine A30/A60 | 2 | 51 | 0.32 | 0.92 | 1.11 | 1.07 | 1.05 | 1.05 | 1.00 |



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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of the MinWool Marine A30/A60 listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Regional Sales Office nearest you for current information.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville thermal insulation and systems, visit www2.jm.com/terms-conditions or call (800)654-3103.

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